


<div style="text-align: center;">  <p><b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)</p> </div>	Docket Number (Optional) <b>UA 02-023</b>	Application Number <b>10/600,935</b>
	Applicant(s) <b>MANSURIPUR et al.</b>	
	Filing Date <b>June 20, 2003</b>	Group Art Unit <b>1631</b>

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/RSN/		5,835,404	11.10.98	HELLER et al.	365	151	
/RSN/		6,385,080	5.7.02	HELLER et al.	365	151	
/RSN/		6,067,246	5.23.00	HELLER et al.	365	151	
/RSN/		6,075,068	6.13.00	BISSINGER	523	116	

**FOREIGN PATENT DOCUMENTS**

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

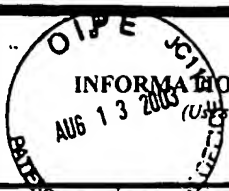
**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

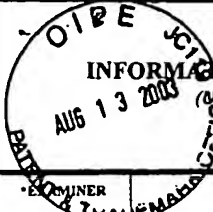
/RSN/		"A Molecular Shift Register Based on Electron Transfer" Hopfield et al., Science, 241, 1998 pgs. 817-820
/RSN/		"The Design of a Blochip: A Self-Assembling Molecular-Scale Memory Device" Robinson et al., Protel Engineering, Vol. 1, No. 4, 1987, pgs. 295-300

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

		Docket Number (Optional) UA 02-023	Application Number 10/600,935
		Applicant(s) MANSURIPUR et al.	
		Filing Date June 20, 2003	Group Art. Unit 1631
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
EXAMINER INITIAL	IRSN/	"DNA-Templated Assembly and Electrode Attachment of a Conducting Silver Wire" Braun et al., Nature 391, pgs. 775-778, 1998	
		"Substituted Polyacetylenes Through the Ring-Opening Metathesis Polymerization (ROMP) of Substituted Cylooctatetraenes: A Route into Soluble Polyacetylene" Gorman et al., Synthetic Metals 41-43, 1991 pgs. 1033-1038	
		"Water-Soluble Ruthenium Alkylidenes: Synthesis, Characterization, and Application of Olefin Metathesis in Protic Solvents" Lynn et al. J Am. Chem. Sci. 2000, 122, 6601-6609	
		Sequence	
		<del>"Sequence-Specific Detection of Individual DNA Strands Using Engineered Nanopores"</del> Howoorka et al., www.nature.com, pgs. 1-10, 2003	
		"DNA, Human Memory, and the Storage Technology of the 21st. Century" Mansuripur, Keynote Paper the University of Arizona, 29 pgs. 2001 Proceedings of the SPIE, volume 4342	
		"Voltage-Driven DNA Translocations Through a Nanopore" Meller et al., Physical Review Letters, Volume 86, No. 15, 2001 pgs. 3435-3438	
		"Rapid Nanopore Discrimination Between Single Polynucleotide Molecules" Meller et al., PNAS, Vol. 97, No. 3, 2000, pgs. 1079-1084	
		Microsecond	
		<del>"Microsecond Time-Scale Discrimination Among Polycytidylic Acid, Polyadenylic Acid, and Polyuridylic Acid as Homopolymers or as Segments Within Single RNA Molecules"</del> Akeson et al., Biophysical Journal, Volume 77, 1999, pgs. 3227-3233	
		"Characterization of Individual Polynucleotide Molecules Using a Membrane Channel" Kasianowicz et al., Proc. Natl. Acad. Sci. USA, Vol. 93, 1996, pgs. 13770-13773	
		"Driven DNA Transport into an Asymmetric Nanometer-Scale Pore" Henrickson et al., Physical Review Letters, Vol. 85, No. 14, 2000, pgs. 3057-3060	
		"Ion-Beam Sculpting at Nanometre Length Scales" Li et al., Letters to Nature, Vol. 412, 2001, pgs. 166-169	
		"Self-Assembling Organic Nanotubes" Bong et al., Organic Nanotubes, 2001, pgs. 988-1011	
EXAMINER		DATE CONSIDERED	
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>			

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		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
EXAMINER INITIALS			
/RSN/		"The Optical Properties of Nanoshells" Halas, Optics and Photonics News, 2002, pgs. 26-30	
/RSN/		"Light-Directed, Spatially Addressable Parallel Chemical Synthesis" Fodor et al., Research Article, 1991, pgs. 767-773	
		<del>"High Density Synthetic Oligonucleotide Arrays" Lipshutz et al., Vol. 21, supplement pp. 20-24, pg. 7-12</del> no date	
/RSN/		"Light-Generated Oligonucleotide Arrays for Rapid DNA sequence Analysis" Pease et al., Proc. Natl. Acad. Sci. USA, Vol. 91, 1994, pgs. 5022-5026	
		<del>"Molecular Interactions on Microarrays" Southern et al., Department of Biochemistry, University of Oxford, Article, pgs. 1-6</del> no date	
/RSN/		"Laser and Electron-Beam Induced Growth of Nanoparticles for 2D and 3D Metal Patterning" Stellacci et al., Advanced Materials, 2002, pgs. 134	
/RSN/		"The Double Helix Gets Trapped" Rowell, Optical Tweezers, Biophotonics International, 2002, pgs. 48-51	
/RSN/		"Nanoliter-Volume Discrete Drop Injection and Pumping in Microfabricated Chemical Analysis Systems" Handique et al., Solid-State Sensor and Actuator Workshop Hilton Head Island, South Carolina, 1998, pgs. 346-349	
		<del>"The Flow of Wet Water" Article, 41-1 to 41-17</del> no date	
/RSN/		"Two-Photon Polymerization Initiators for Three-Dimensional Optical Data Storage and Microfabrication" Cumpston et al Nature 398, 1999, pgs. 1-6	
EXAMINER  /Russell S. Negin/		DATE CONSIDERED  04/14/2007	

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